STREAMVIEW™

User Guide V1.5

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I. Information about the manual

This document is designed to help users setup, configure and work with the STREAMVIEW.

.!. Important features are marked by this sign.

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1. Overview

Teracue's Streamview is an advanced audio/video receiver and decoding appliance for displaying one single or several video streams on one single display. The task: Receiving several MPEG-2 SD/HD and H.264 SD/HD LIVE streams and viewing of these LIVE streams directly on standard TV's, LCD's, plasmas, monitors and on projectors. The Streamview processes each ISO/open standard video stream. It is designed for LAN and intranet network video applications. Enables simultaneously displaying of several streams on one display and each stream can be toggled to full screen for viewing the details.

2. Installation

2.1 Microsoft .Net Framework

Before you install the Streamview™ make sure that '.Net Framework 4.0' or higher is installed on your system. You can check this by opening the 'control panel' and clicking to 'Add or Remove Programs'. If '.Net Framework' is installed, you will find the program in the list of the 'Add or Remove Programs' window, see Figure 1. If '.Net Framework' is not installed on your system, please download the '.Net Framework' (dotnetfx.exe) from the Microsoft web page. After you have installed the '.Net Framework', please make a Microsoft-Update.

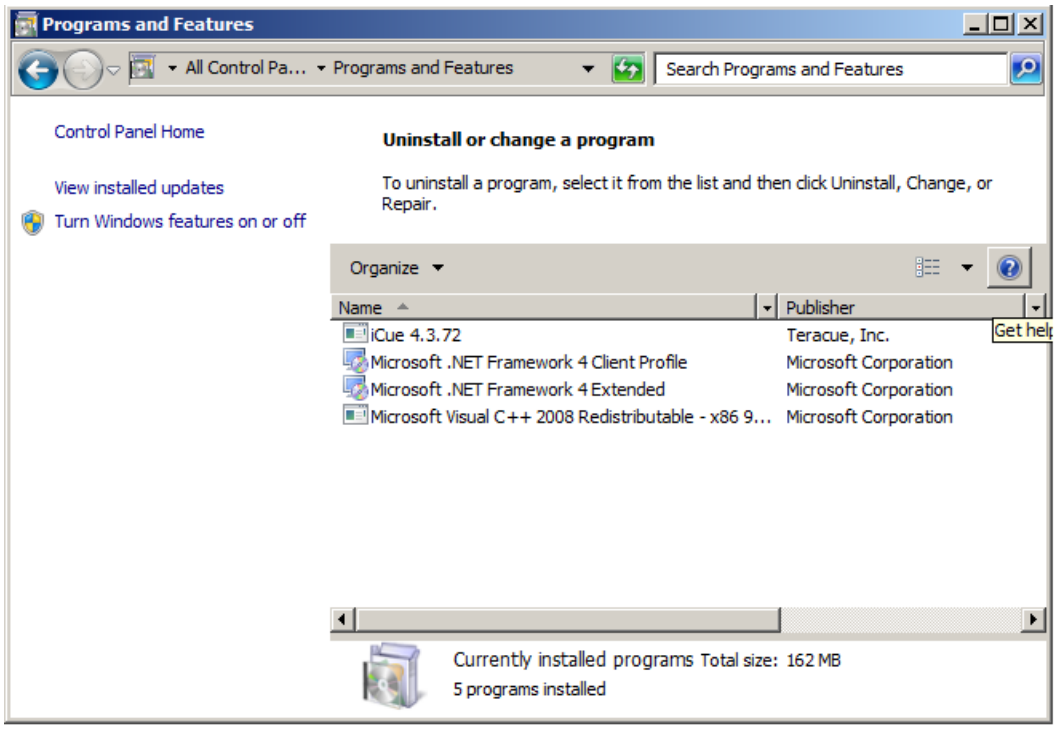
Programs and Features
All Control Pa... ▸ Programs and Features
Search Programs and Features
Control Panel Home
View installed updates
Turn Windows features on or off
Uninstall or change a program
To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.
Organize
Name
Publisher
iCue 4.3.72
Teracue, Inc.
Microsoft .NET Framework 4 Client Profile
Microsoft Corporation
Microsoft .NET Framework 4 Extended
Microsoft Corporation
Microsoft Visual C++ 2008 Redistributable - x86 9...
Microsoft Corporation
Currently installed programs Total size: 162 MB
5 programs installed

Figure 1: '.Net Framework'

2.2 Internet Information Server

The Streamview needs the Webserver is available on every supported Window.
The following description explain the installation under Windows 2008 Server but is nearly similar on all other Windows.

Steps:

1. Open Server Manager with **>Start >Run >ServerManager**
2. Step to Roles
3. Add Role **Web Server (IIS)**

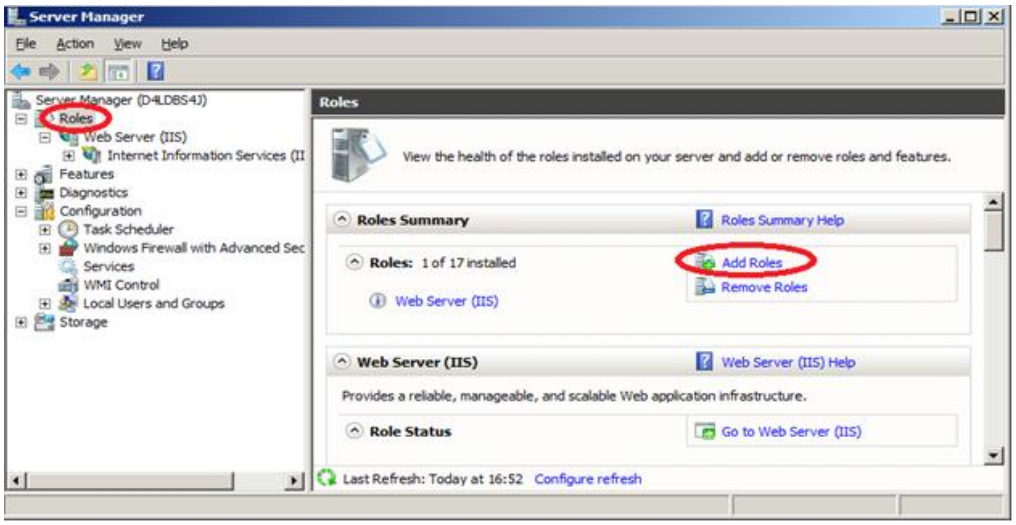

Figure 2: Server Manager to add IIS

The following role services are necessary:

- Static Content (set by default)
- Default Document (set by default)
- Directory Browsing (set by default)
- HTTP Errors (set by default)
- ASP.NET
- Net Extensibility
- ASP
- ISAPI Extensions
- ISAPI Filters
- HTTP Loggin (set by default)
- Request Monitor (set by default)
- Static Content Compresion (set by default)
- ISS Management Console (set by default)
- ISS 6 Management Compability
- IIS 6 Metabase Compability
- ISS 6 WMI Compability
- ISS 6 Scripting Tools
- ISS 6 Management Console

4. Make sure that at IIS Application Development **ASP** is checked (see Figure 3)

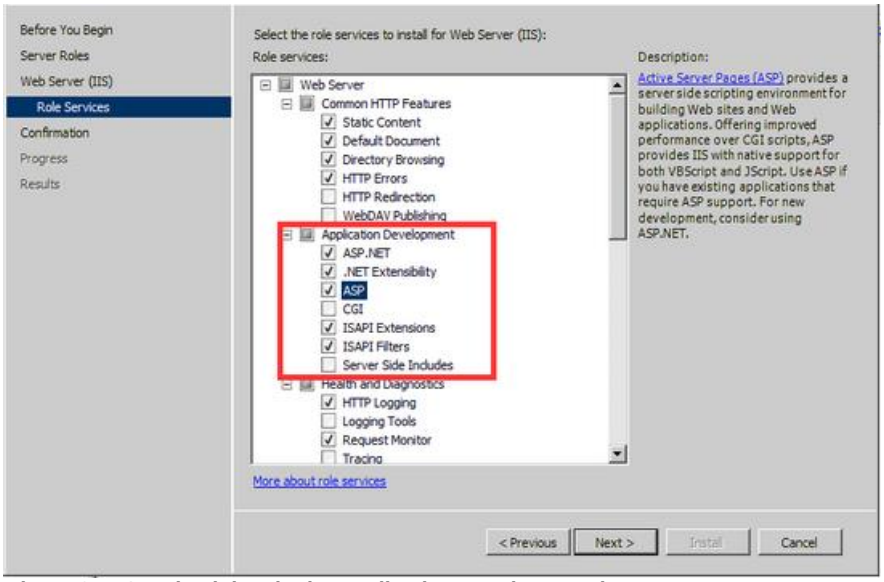

Figure 3: 'ASP' check-box in the Application Development item

Make sure that at IIIS options **IIS 6 Compatibility** is checked (with all sub categories)

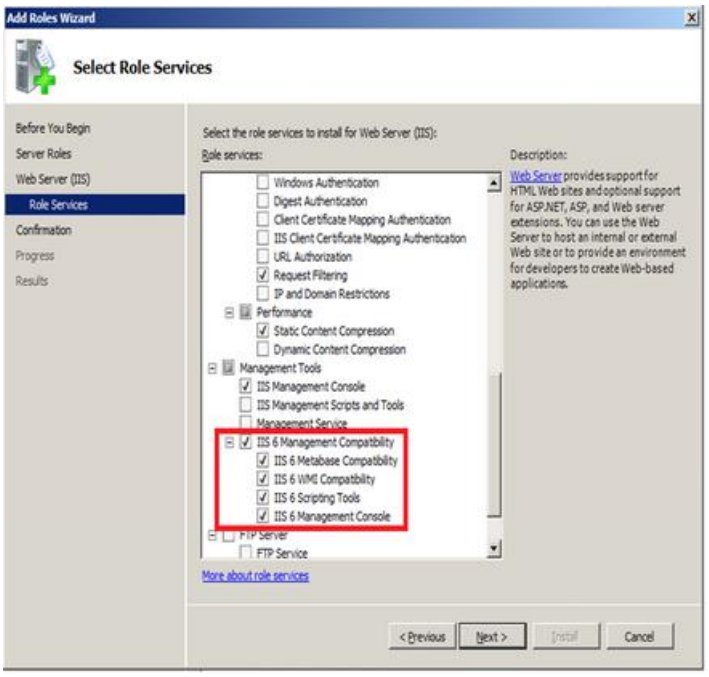

Figure 4: IIS 6 Management Compatibility

2.3 Register .Net Framework for IIS

The steps described in this chapter are only necessary if **.Net Framework 4.0** is **already installed**. If you install .Net Framework 4.0 after IIS installation (strongly recommended) you can skip this chapter since all steps are done automatically.

Steps for Windows Server 32bit:

1. Open command line with >Start >Run >cmd
2. Register .Net Framework 4.0 with
   c:\windows\microsoft.net\framework\v4.0.30319\aspnet_regiis –i

Steps for Windows Server 64 bit:

1. Open command line with >Start >Run >cmd
2. Register .Net Framework 4.0 with
   c:\windows\microsoft.net\framework64\v4.0.30319\aspnet_regiis –i

2.4 Application Pool in IIS

The following Application pools of the IIS Manager (inetmgr) must be available:

- ASP .Net v4.0
- ASP .Net v4.0 Classic
- Classic .Net AppPool
- DefaultAppPool

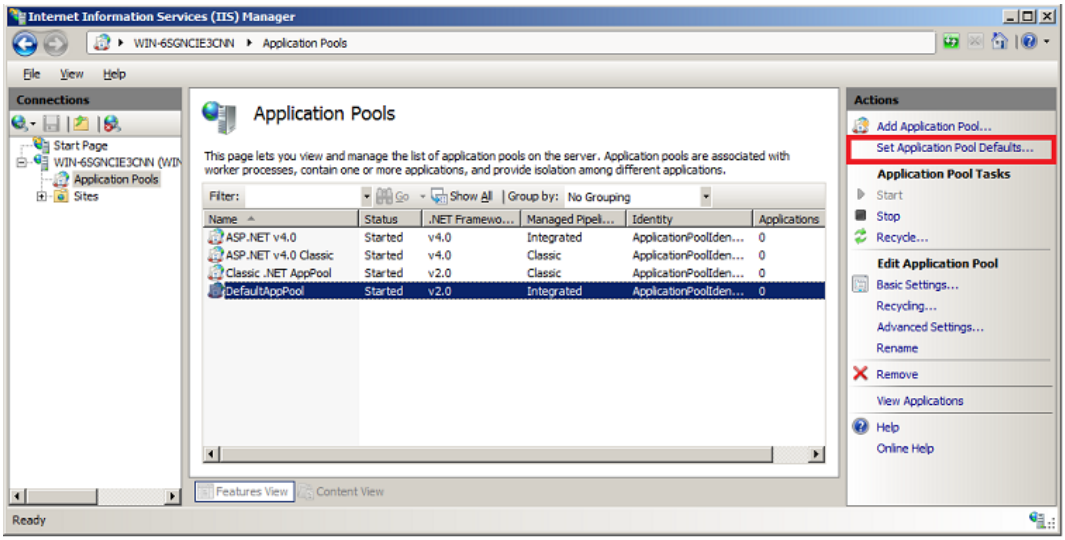

Figure 5: IIS Application Pools

Accomplish the following configuration steps:

1. Step to Application Pools default
2. Change .NET Framework version to v4.0
3. Set Enable 32-Bit Applications to True

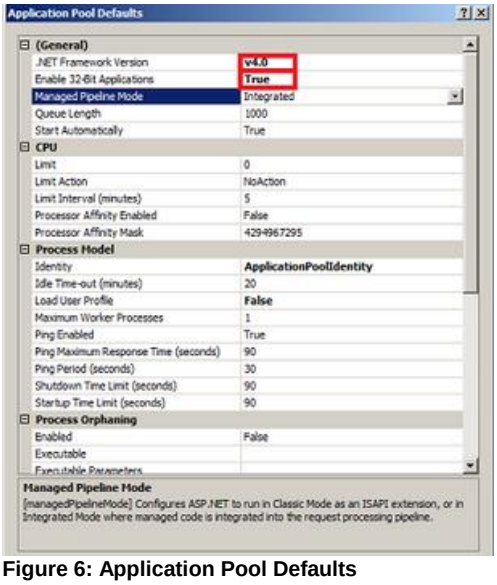
Application Pool Defaults
(General)
.NET Framework Version v4.0
Enable 32-Bit Applications True
Managed Pipeline Mode Integrated
Queue Length 1000
Start Automatically True
CPU
Limit 0
Limit Action NoAction
Limit Interval (minutes) 5
Processor Affinity Enabled False
Processor Affinity Mask 4294967295
Process Model
Identity ApplicationPoolIdentity
Idle Time-out (minutes) 20
Load User Profile False
Maximum Worker Processes 1
Ping Enabled True
Ping Maximum Response Time (seconds) 90
Ping Period (seconds) 30
Shutdown Time Limit (seconds) 90
Startup Time Limit (seconds) 90
Process Orphaning
Enabled False
Executable
Executable Parameters
Managed Pipeline Mode
[managedPipelineMode] Configures ASP.NET to run in Classic Mode as an ISAPI extension, or in Integrated Mode where managed code is integrated into the request processing pipeline.

Figure 6: Application Pool Defaults

2.5 Streamview™ Installation

The following section describes the Streamview™ installation. Please execute the **'setup.exe'** of the **Streamview™** application. It opens the install assistant for the Streamview™ application, see Figure 7. Click there on **'Next>'**.

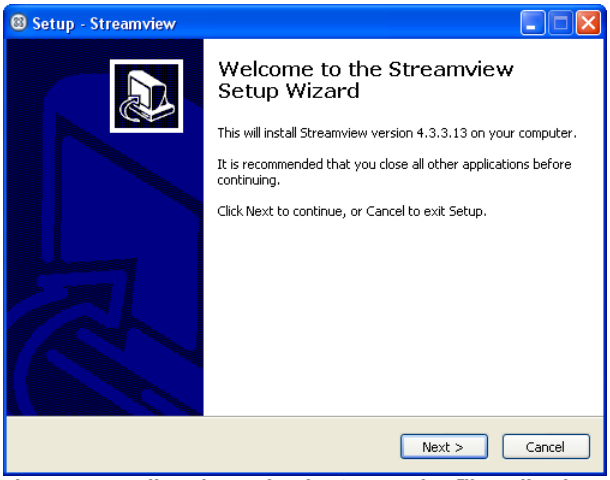
Setup - Streamview
Welcome to the Streamview Setup Wizard
This will install Streamview version 4.3.3.13 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

Figure 7: Install assistant for the Streamview™ application

As next please agree the End-User Software License Agreement (EULA) from Teracue and click **'Next>'**, see Figure 8.

Setup - Streamview
License Agreement
Please read the following important information before continuing.
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
****
Teracue END-USER SOFTWARE LICENSE AGREEMENT
****
IMPORTANT-READ CAREFULLY: This End-User License Agreement
("EULA") is a legal agreement between you (either an
I accept the agreement
I do not accept the agreement
< Back
Next >
Cancel

Figure 8: License Agreement of the Streamview™ installation

Now will be defined where the Streamview™ files should be stored, see Figure 9.

Here the storage path of the Streamview™ binaries files is indicated, which are needed for the Streamview™. These binary files are elementary components of the Streamview™ application. The default value of the storage path is **'C:\Program Files\Teracue\Streamview\'**. We do not recommend changing the path.

Click **'Next>'** to continue the Streamview™ installation.

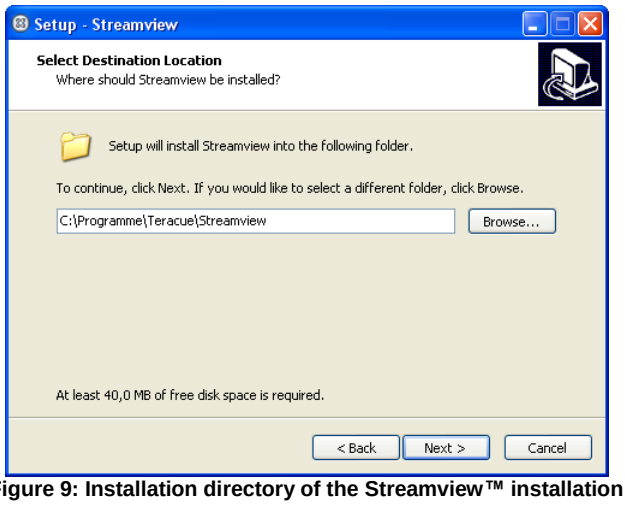
Setup - Streamview
Select Destination Location
Where should Streamview be installed?
Setup will install Streamview into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Programme\Teracue\Streamview
Browse...
At least 40,0 MB of free disk space is required.
< Back
Next >
Cancel

Figure 9: Installation directory of the Streamview™ installation

Buttons, Text- / Check-Boxes:	Description:
Folder:	Specifies the path of the Streamview™ binaries files, which are needed for the Streamview™ application. The default storage path of the 'Folder' field is **'C:\Program Files\Teracue\Streamview\'**.
Browse:	With the 'Browse' button you can change the default path of the field 'Folder'.
<Back:	Click 'Back', if you want to go back one step of the install process.
Next>:	Click 'Next', if you want to continue the install process.
Cancel:	Click 'Cancel', if you want to abort the install process.

Table 1: Description of the 'Select Installation Folder' window of the Streamview™ installation

As next you must define whether a desktop icon or a quick launch icon shall be created. Please enable / disable the corresponding check box to allow or disallow the creation of the desktop icon and/or the quick launch icon. See Figure 10.

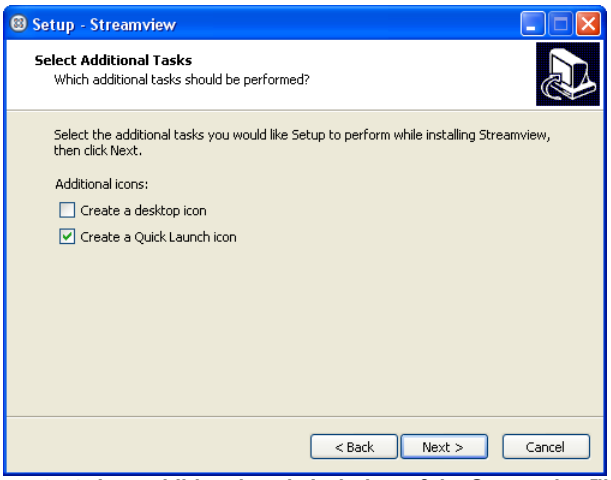
Setup - Streamview
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing Streamview, then click Next.
Additional icons:
Create a desktop icon
Create a Quick Launch icon
< Back
Next >
Cancel

Figure 10: 'Select Additional Tasks' window of the Streamview™ installer

After you have finished your installation settings, the installer asks you to confirm your settings with **'Next>'**, see Figure 11. Please click the **'Next>'** button, to start the Streamview™ installation.

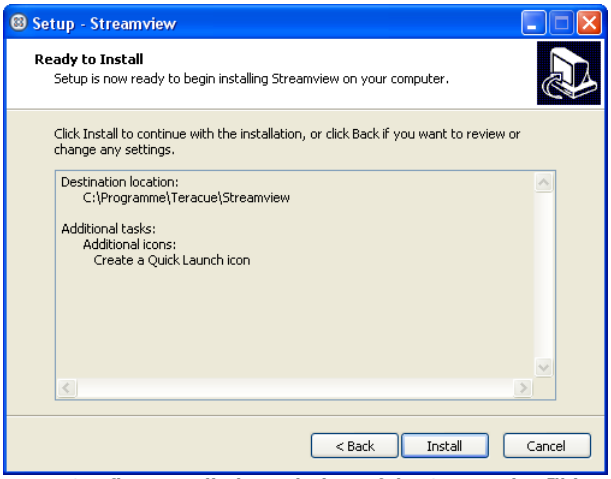
Setup - Streamview
Ready to Install
Setup is now ready to begin installing Streamview on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Programme\Teracue\Streamview
Additional tasks:
Additional icons:
Create a Quick Launch icon
< Back
Install
Cancel

Figure 11: 'Confirm Installation' window of the Streamview™ installer

The installer begins to install the Streamview™ application, see Figure 12.

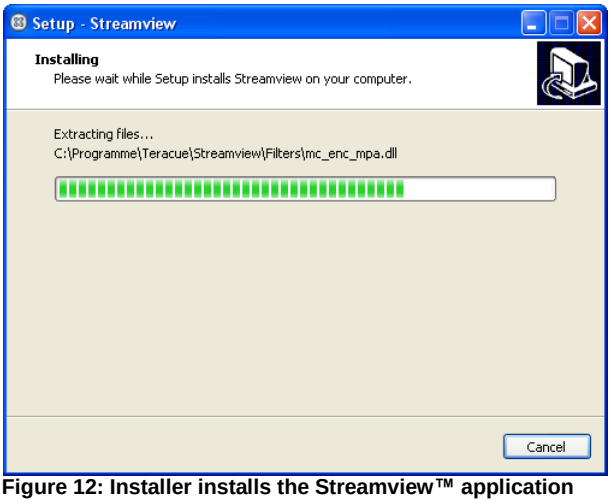

Figure 12: Installer installs the Streamview™ application

If the installer has completed the Streamview™ installation successfully, please click 'Close' to exit the install assistant, see Figure 13.

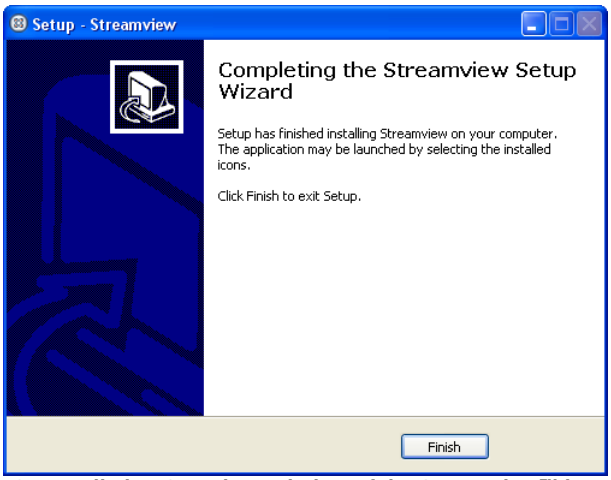
Setup - Streamview
Completing the Streamview Setup Wizard
Setup has finished installing Streamview on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Finish

Figure 13: 'Installation Complete' window of the Streamview™ installation

After the Streamview™ installation is successfully finished, you find on your desktop a shortcut to open the Streamview™. To use the Streamview™ you must register the Streamview™ at first.

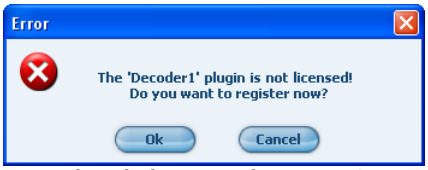

Figure 14: Hint window to register your Streamview

The registration of the Streamview™ is described in chapter 2.6 on page 16.

2.6 Registering Streamview™

If you have launched the Streamview™ for the first time, you must register the Streamview™. To register the Streamview™, please open the Streamview™ via the 'Streamview' shortcut on your desktop. It opens the graphical interface of the Streamview™. Please go in the menu bar of the Streamview™ window to 'Help' and select afterwards 'Registration'. It opens the 'Register Teracue product' window, see Figure 15.

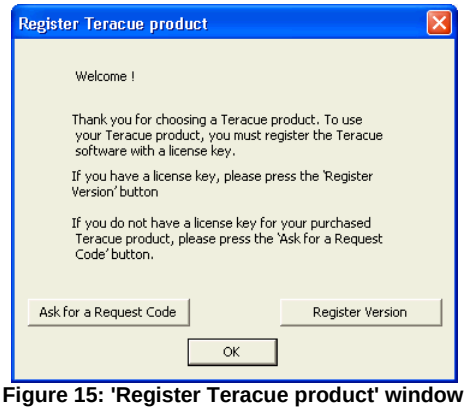
Register Teracue product
Welcome !
Thank you for choosing a Teracue product. To use your Teracue product, you must register the Teracue software with a license key.
If you have a license key, please press the 'Register Version' button
If you do not have a license key for your purchased Teracue product, please press the 'Ask for a Request Code' button.
Ask for a Request Code
Register Version
OK

Figure 15: 'Register Teracue product' window

For registering with a FULL VERSION or a DEMO VERSION, click on **'Ask for a Request Code'**. It opens the 'New license request' window, see Figure 16.

After you pressed 'Ask for a Request Code', the 'New license request' window will appear, see Figure 16. It displays your request code, which is needed to obtain a full/demo version license key.

Please right-click on the blue marked request code and copy it.
Paste it into an email along with your name, your company details and your project number and send it to: support@teracue.com
You will shortly receive an answer supplying you with your full license key or your demo license key.

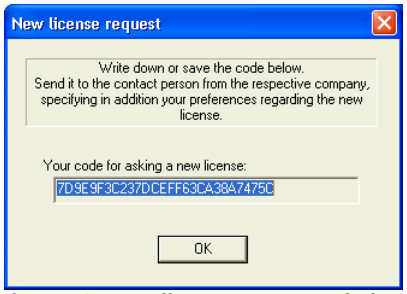
New license request
Write down or save the code below.
Send it to the contact person from the respective company, specifying in addition your preferences regarding the new license.
Your code for asking a new license:
7D9E9F3C237DCEFF63CA38A7475C
OK

Figure 16: 'New license request' window

After you have received your full-/demo-license key, you can continue with the registration of your Streamview™ Software. Therefore please open the Streamview™ again and go in the menu bar to 'Help' and select 'Registration'. When the 'Register Teracue product' window (see Figure 15) is opened, please click the **'Register Version'** button. After that, it opens the 'Registration' window, see Figure 17.

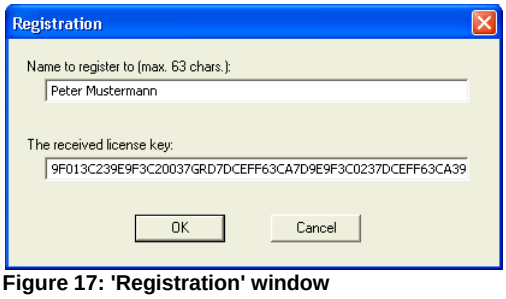

Figure 17: 'Registration' window

Please enter your name in the top entry field. And paste your license key from the e-mail into the lower field. Simply click **'OK'**. Close the 'Register Teracue product' window by clicking the **'OK'** button of this window. Your product is now fully licensed.

.!. If you have a demo license, please renew your Streamview™ licenses before it runs out.

2.7 General Information's:

After installation and registration following Programs are installed, and will be started automatically.

2.7.1 Streamview.Watchdog

The Streamview Watchdog is installed in the Startup folder from Windows.

This Program is responsible to start the Streamview itself or in case of a Streamview crash to restart the Streamview. Also if you close the program Streamview by yourself, the Streamview.Watchdog is restarting the Streamview again.
If you want to stop this behaviour close the Streamview.Watchog with right Click in the Systray, and delete the program also from the Windows Startup.

Figure 18: Systray

The Streamview.watchdog start the Streamview always in full screen Mode.
To end the full screen Mode press Ctrl+F11. With another Ctrl+F11 you switch back to full screen.

The Streamview.watchdog also move the Mouse to the left down side of the screen to hide the mouse pointer. This could cause some issue especially if you use Windows 7. Than pleas move the Windows Taskbar from the bottom to the left side.

2.7.2 Streamview Program

Most of the settings described in Chapter 4 could be also configured in the Streamview GUI.
Teracue recommend the configuration with the Web GUI, and do not describe the Client GUI.

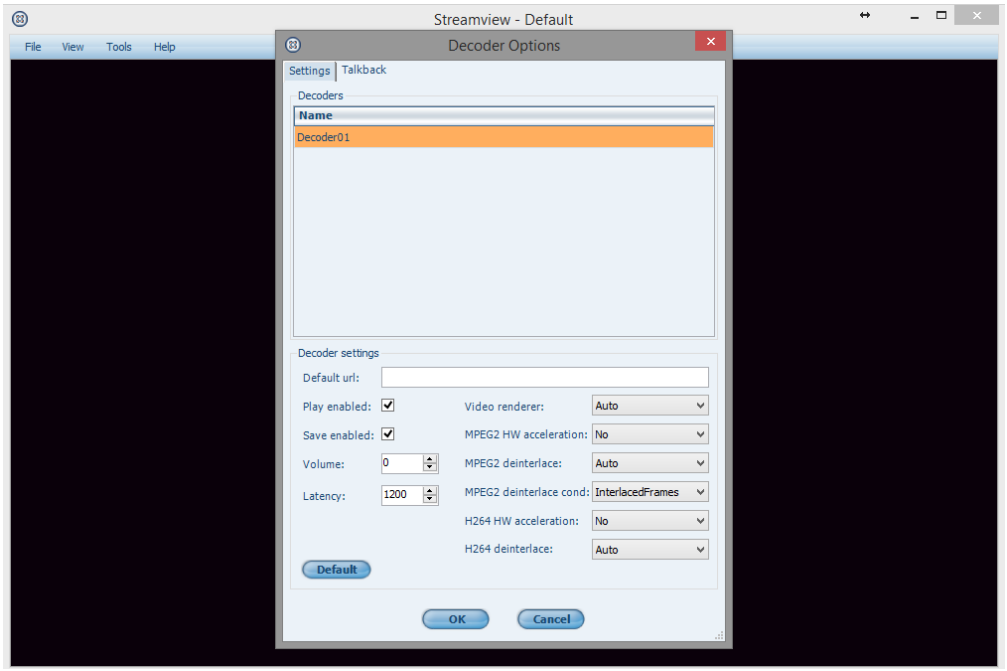

Figure 19: Streamview Windows GUI

3. Profile Setting

The Streamview™ runs with different profiles. On the basis of these different profiles you can use the Streamview™ among other things as a single Streamview™ application, as a 2x2 Streamview™ application, as a 3x3 Streamview™ application etc.

The minimum requirements to display sixteen H.264 SD or MPEG-2 SD streams or to display six H.264 HD streams are: Core i7 920, 2.7 GHz, 4 GB (recommended 8 GB).

3.1 'Default' Profile

The 'Default' profile opens the Streamview™ only with one player display. That means the Streamview™ runs with the 'Default' profile as single Streamview™ application.

3.2 'Streamview2x2' Profile

The 'Streamview2x2' profile opens the Streamview™ with four player displays. That means the Streamview™ runs with the 'Streamview2x2' profile as a 2x2 Streamview™ application, which has two player displays on the top and two player displays on the bottom.

3.3 'Streamview3+1' Profile

The 'Streamview3+1' profile opens the Streamview™ with four player displays. If the Streamview™ runs with the 'Streamview3+1' profile, the Streamview™ has three player displays on the left side in the vertical direction and one big player display on the right side.

3.4 'Streamview3x3' Profile

The 'Streamview3x3' profile opens the Streamview™ with nine player displays. That means the Streamview™ runs with the 'Streamview3x3' profile as a 3x3 Streamview™ application, which has three player displays on the top, three player displays in the middle and three player displays on the bottom.

3.5 'Streamview4x4' Profile

The 'Streamview4x4' profile opens the Streamview™ with sixteen player displays. That means the Streamview™ runs with the 'Streamview4x4' profile as a 4x4 Streamview™ application, which has four player-rows and each player-row has four player displays.

3.6 'Streamview4x5' Profile

The 'Streamview4x5' profile opens the Streamview™ with twenty player displays. That means the Streamview™ runs with the 'Streamview4x5' profile as a 4x5 Streamview™ application, which has four player-rows and each player-row has five player displays.

3.7 'Streamview5x6' Profile

The 'Streamview5x6' profile opens the Streamview™ with thirty player displays. That means the Streamview™ runs with the 'Streamview5x6' profile as a 5x6 Streamview™ application, which has five player-rows and each player-row has six player displays.

3.8 Benchmarks

We tested with this hardware the Decoders output performance:

Core i7-2600K 3,4 GHz
8GB RAM
Nvidia Geforce GTX 650Ti

8 x H264 HD at 80%CPU
16 x H264 SD at 50%CPU
20 x H264 SD at 75% CPU

Core i5
8GB RAM
Nvidia Geforce GTX 660Ti

20 x MPEG2 SD at 80%
16 x H264 SD at 80%

4. STREAMVIEW Web browser GUI

This chapter gives you an overview over STREAMVIEW and demonstrates the appliance's main functions.

.!. Before proceeding, please be sure that the STREAMVIEW is setup correctly.

Working and configuring Teracue's STREAMVIEW is very easy.
You do not need to install an application or remote configuring software. If you know how to browse the internet, then you already know how to access and control the STREAMVIEW, simply via web-browser.

4.1 Accessing and Configuring STREAMVIEW

Open your standard web-browser and enter the IP-address of STREAMVIEW in the address field and press the 'Enter' button. The IP-address of the STREAMVIEW is shown shortly at the splash screen while the STREAMVIEW application is starting. If you have installed the STREAMVIEW at hardware, which have two network cards, you must enter the LAN 1 or LAN 2 IP-address in your standard web-browser (depending on whether you have connected LAN 1 or LAN 2 with the network cable).

Login username: admin
Login password: admin

.!. To be able to login to the STREAMVIEW's user interface, your computer has to be in the same IP-address range (subnet).

You briefly might have to change your computers IP-address to be in the same subnet as the STREAMVIEW. Only then you will be able to access the STREAMVIEW and configure it.

4.2 Login

After typing the IP-address of your STREAMVIEW into the browser and hitting enter, a login screen should appear. See **Figure 20: STREAMVIEW web interface 'Login Page'**Figure 20**.**

Enter your username and password and click on ‘Login’.

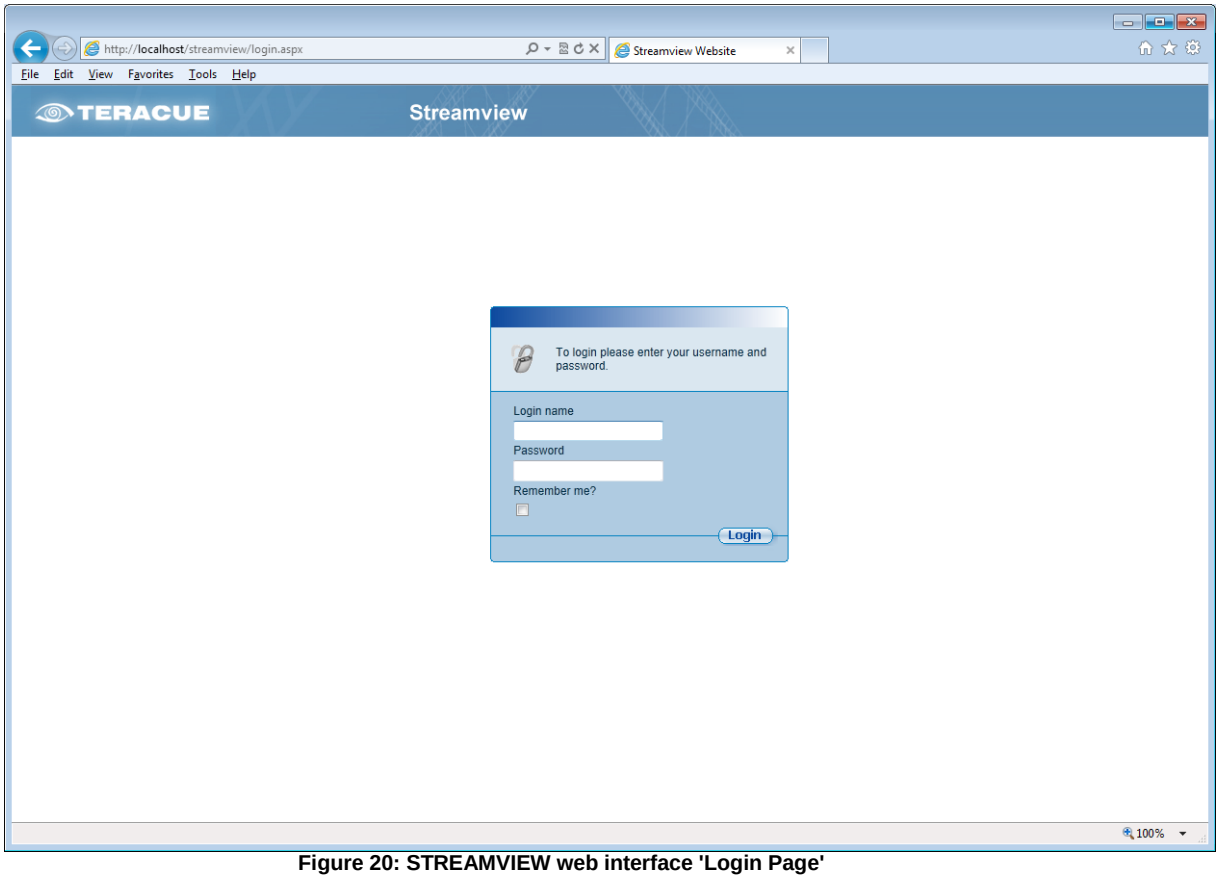

Figure 20: STREAMVIEW web interface 'Login Page'

Login username: admin
Login password: admin

4.3 Graphical User Interface of STREAMVIEW

4.3.1 Navigational Menus

After successful login you have access to the STREAMVIEW's configuration. All of the settings can be adjusted via web-browser.

Main Menu:
The main menu contains the ‘Decoders’, ‘System’, ‘Network’, ‘Help’ and ‘Log Out’ links from the top bar. See Figure 21.

Secondary Menu:
After selecting the desired menu item from the main menu, choose an area for configuration from the secondary menu, which is resides on the left-hand side. See Figure 21.

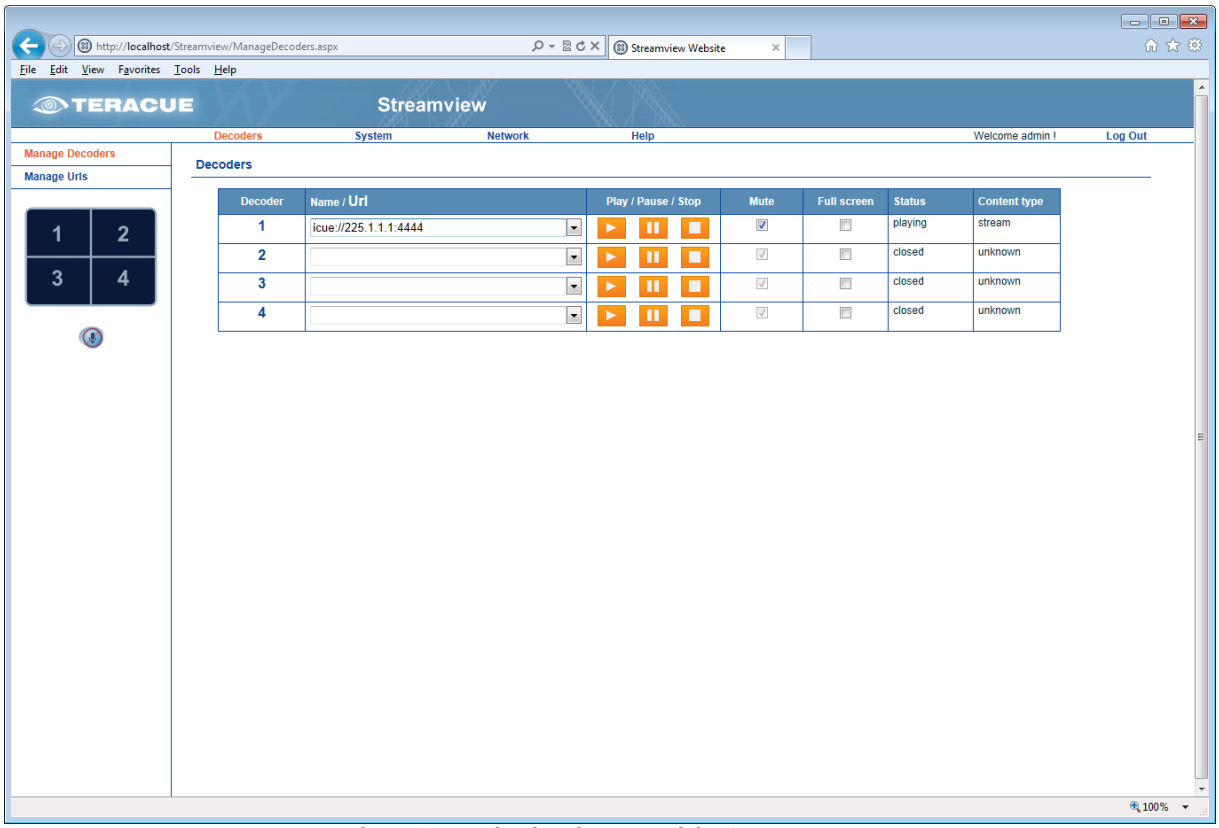

Figure 21: Navigational menus of the STREAMVIEW

4.4 STREAMVIEW Configuration

4.4.1 Menu: Decoders / Manage Decoders

Under the menu option ‘Decoders / Manage Decoders’ you are able to remote control all the loaded decoders by the STREAMVIEW and how they are distributed on the screen. See Figure 22.

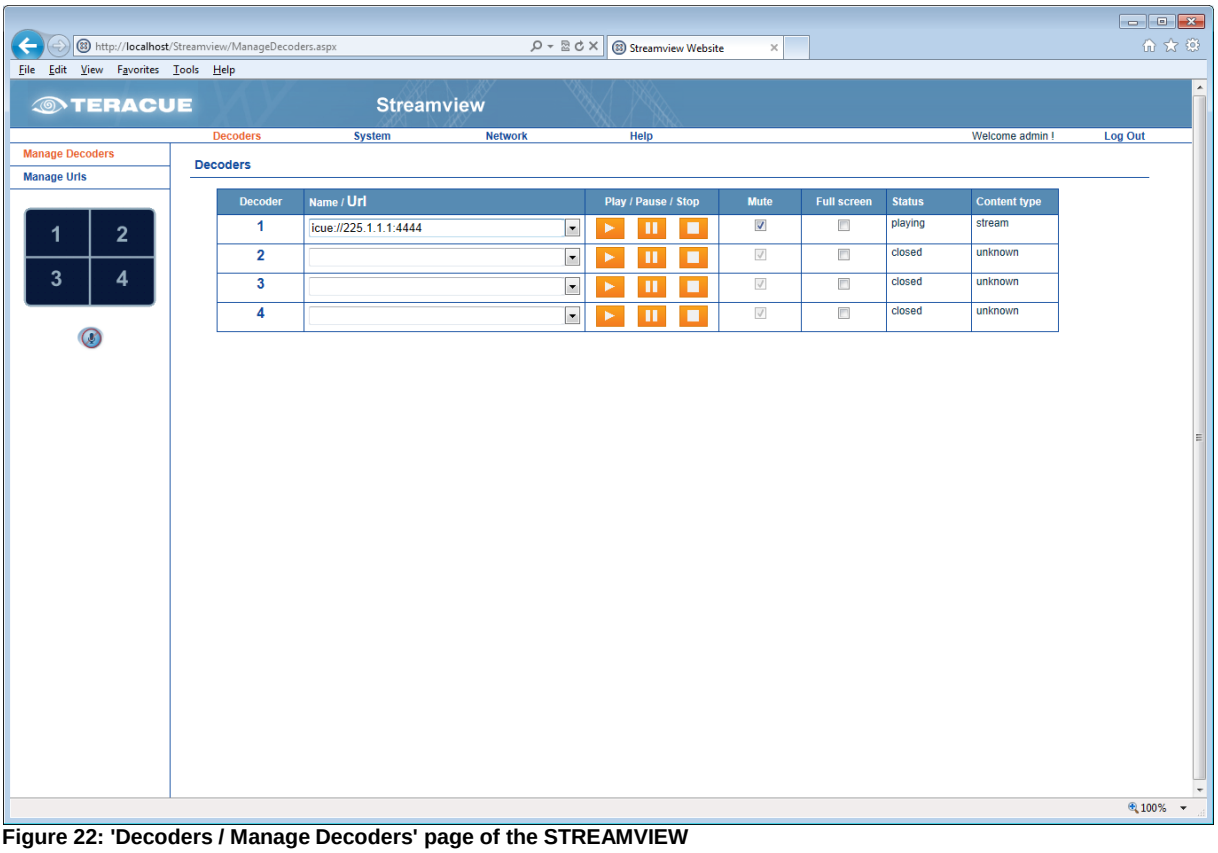

Figure 22: 'Decoders / Manage Decoders' page of the STREAMVIEW

Table 2 and Table 3 describe the ‘Decoders / Manage Decoders’ page of the STREAMVIEW.

Settings:	Description:
Decoder:	Represents the decoder index.
Name/Url:	Specifies the URL of the loaded stream by the respective decoder.
Mute:	Enables / Disables the mute option of the respective decoder.
Full screen:	Enables / Disables the full screen mode of the respective decoder.
Status:	Shows the status of the respective decoder.
Content type:	Shows the content type of the respective decoder.

Table 2: Settings on the ‘Decoders / Manage Decoders' webpage of the STREAMVIEW

Operations:	Description:
SELECT URL:	By hitting the 'Name/Url' drop-down list, you are able to select and play back the selected URL promptly.
PLAY:	By hitting the 'PLAY' button, you are able to start decoding on the respective decoder.
PAUSE:	By hitting the 'PAUSE' button, you are able to pause decoding on the respective decoder.
STOP	By hitting the 'STOP' button you are able to stop the streaming of the respective decoder.
MUTE	By checking the 'Mute' checkbox, the respective decoder is muted.
FULLSCREEN	By checking the 'Full screen' checkbox, the respective decoder displays the stream in the full-screen mode.

Table 3: Operations on the 'Decoders / Manage Decoders' webpage of the STREAMVIEW

4.4.2 Menu: Decoders / Manage Urls

Figure 23 shows the ‘Decoders / Manage Urls’ page of the STREAMVIEW.

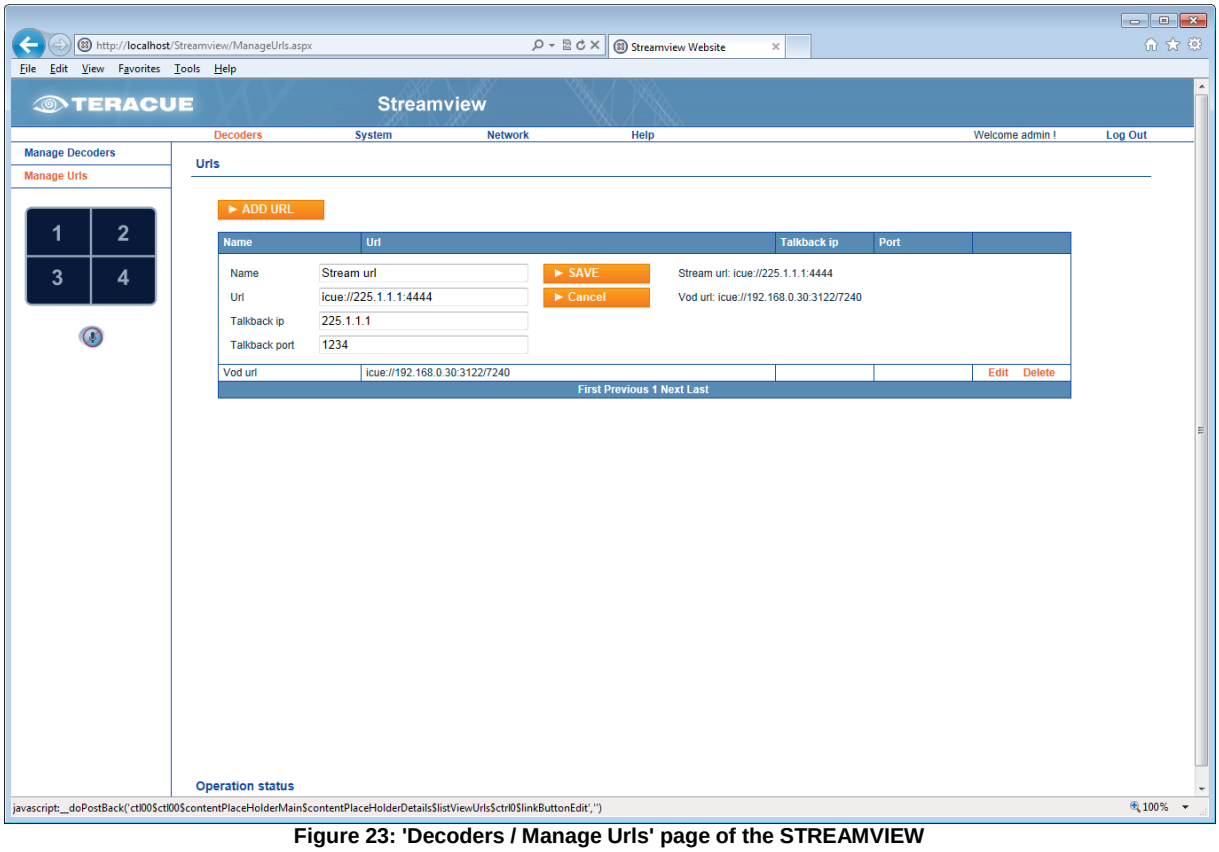

Figure 23: 'Decoders / Manage Urls' page of the STREAMVIEW

Under the menu option ‘Decoders / Manage Urls’ you are able manage the list of Urls. This list can be used on the ‘Manage Decoders’ page, so you will not be required to enter the URL every time you wish to play back a channel or clip.

Table 4 and Table 5 describe the ‘Decoders / Manage Urls’ page of the STREAMVIEW.

Settings:	Description:
Name:	Specifies the name of the entry.
Url:	Specifies the URL that is being passed to the decoder. Therefor keep the following syntax: icue://stream_IP-address:Port-number So, type in this field the IP-address and the port number of your desired stream. For example: icue://239.252.20.100:4444
Talkback ip:	Specifies the talkback IP associated to the URL.
Talkback port:	Specifies the talkback port associated to the URL.

Table 4: Settings on the 'Decoders / Manage Urls' webpage of the STREAMVIEW

Operations:	Description:
ADD URL:	Spins up the panel where a new entry can be created.
SAVE:	Saves a new or existing entry.
CANCEL:	Cancels an ‘ADD URL’ or ‘EDIT’ operation.
EDIT	Initiates an ‘EDIT’ operation.
DELETE	Initiates a ‘DELETE’ operation.

Table 5: Operations on the 'Decoders / Manage Urls' webpage of the STREAMVIEW

4.4.3 Menu: System / Manage Application

Figure 24 shows the ‘System / Manage Application’ page of the STREAMVIEW.

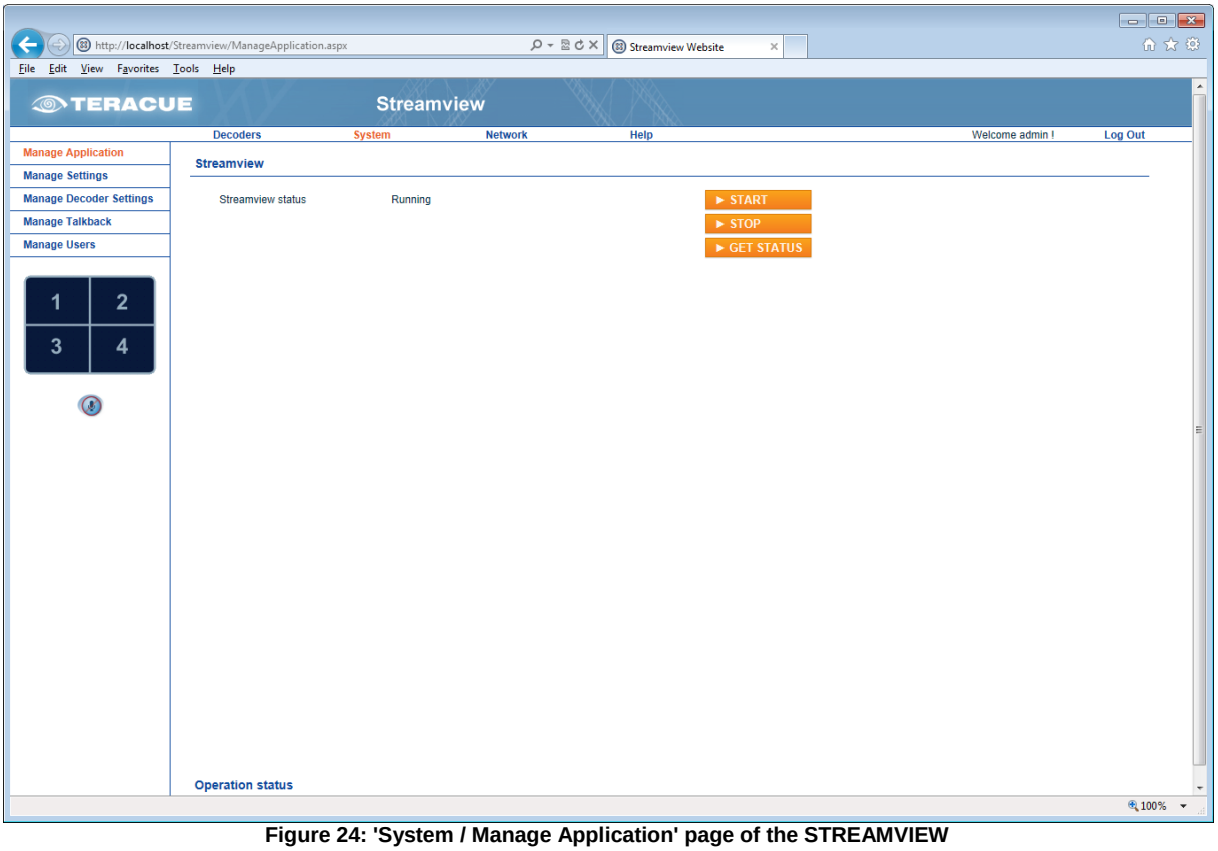

Figure 24: 'System / Manage Application' page of the STREAMVIEW

Under the menu option ‘System / Manage Application’ you are able to see whether the Streamview process is running. Here you are able to START the process, to STOP the process and to query its status.

Table 6 and Table 7 describe the ‘Decoders / Manage Application’ page of the STREAMVIEW.

Settings:	Description:
Streamview status:	Shows the status of the STREAMVIEW process.

Table 6: Settings on the ‘Decoders / Manage Application' webpage of the STREAMVIEW

Operations:	Description:
START:	Starts the STREAMVIEW process.
STOP:	Stops the STREAMVIEW process.
GET STATUS:	Gets the status of the STREAMVIEW process

Table 7: Operations on the ‘Decoders / Manage Application' webpage of the STREAMVIEW

4.4.4 Menu: System / Manage Settings

Figure 25 shows the ‘System / Manage Settings’ page of the STREAMVIEW. Table 8 and Table 9 describe the ‘System / Manage Settings’ page of the STREAMVIEW.

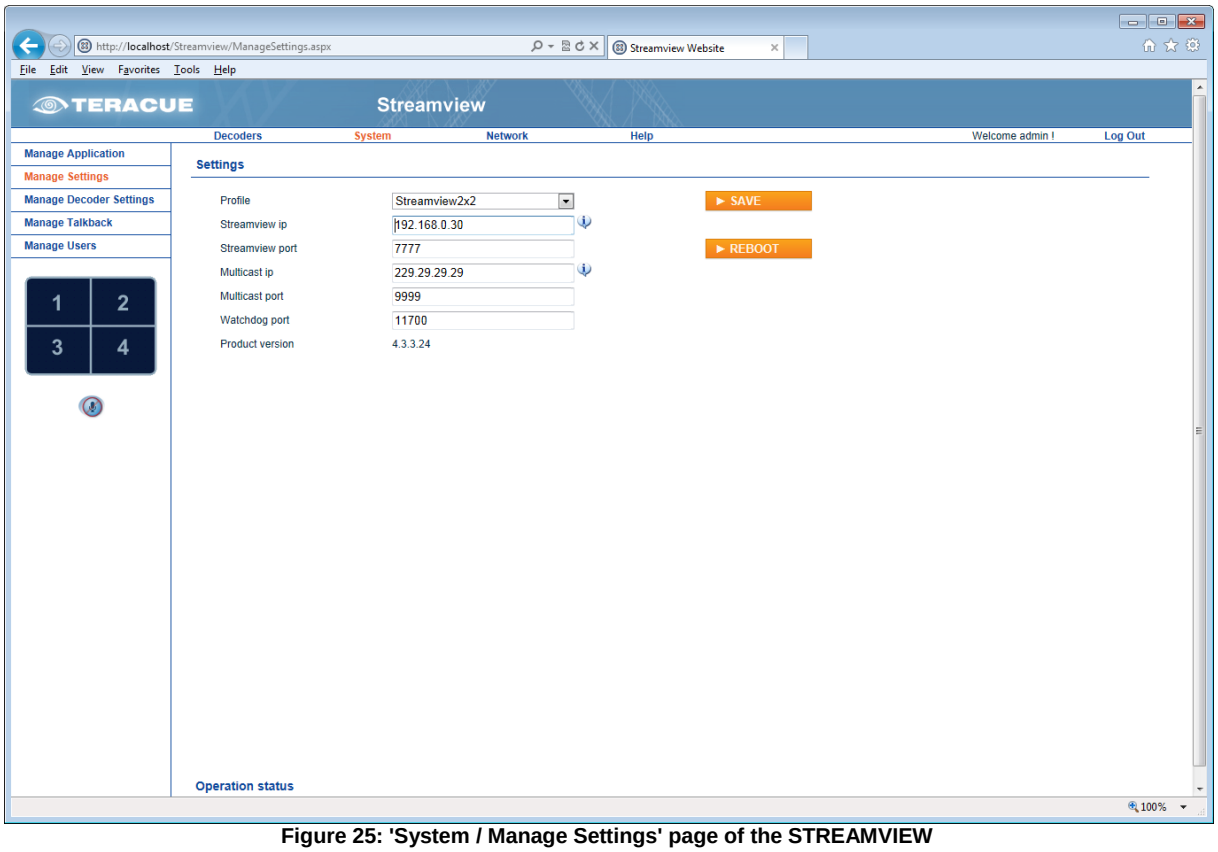

Figure 25: 'System / Manage Settings' page of the STREAMVIEW

Settings:	Description:
Profile:	Specifies the used profile. See chapter **Fehler! Verweisquelle konnte nicht gefunden werden.** on page **Fehler! Textmarke nicht definiert.**.
Streamview ip:	Represents the IP-address on which the STREAMVIEW listens for commands.
Streamview port:	Represents the port number on which the STREAMVIEW listens for commands.
Multicast ip:	Represents the multicast IP-address on which the STREAMVIEW listens for commands. For example: The ElementManager can send commands to several STREAMVIEWs via multicast.
Multicast port:	Represents the multicast port number on which the STREAMVIEW listens on commands. For example: The ElementManager can send commands to several STREAMVIEWs via multicast.
Watchdog port:	The WATCHDOG will listen on this UDP port for ‘REBOOT’, ‘START’ and ‘STOP’ commands.
Product version:	Represents the actual version of STREAMVIEW.

Table 8: Settings on the 'System / Manage Settings' webpage of the STREAMVIEW

Operations:	Description:
SAVE:	Saves all changes.
REBOOT:	Reboots the STREAMVIEW.

Table 9: Operations on the 'System / Manage Settings' webpage of the STREAMVIEW

4.4.5 Menu: System / Manage Decoder Settings

Figure 26 shows the ‘System / Manage Decoder Settings’ page of the STREAMVIEW.

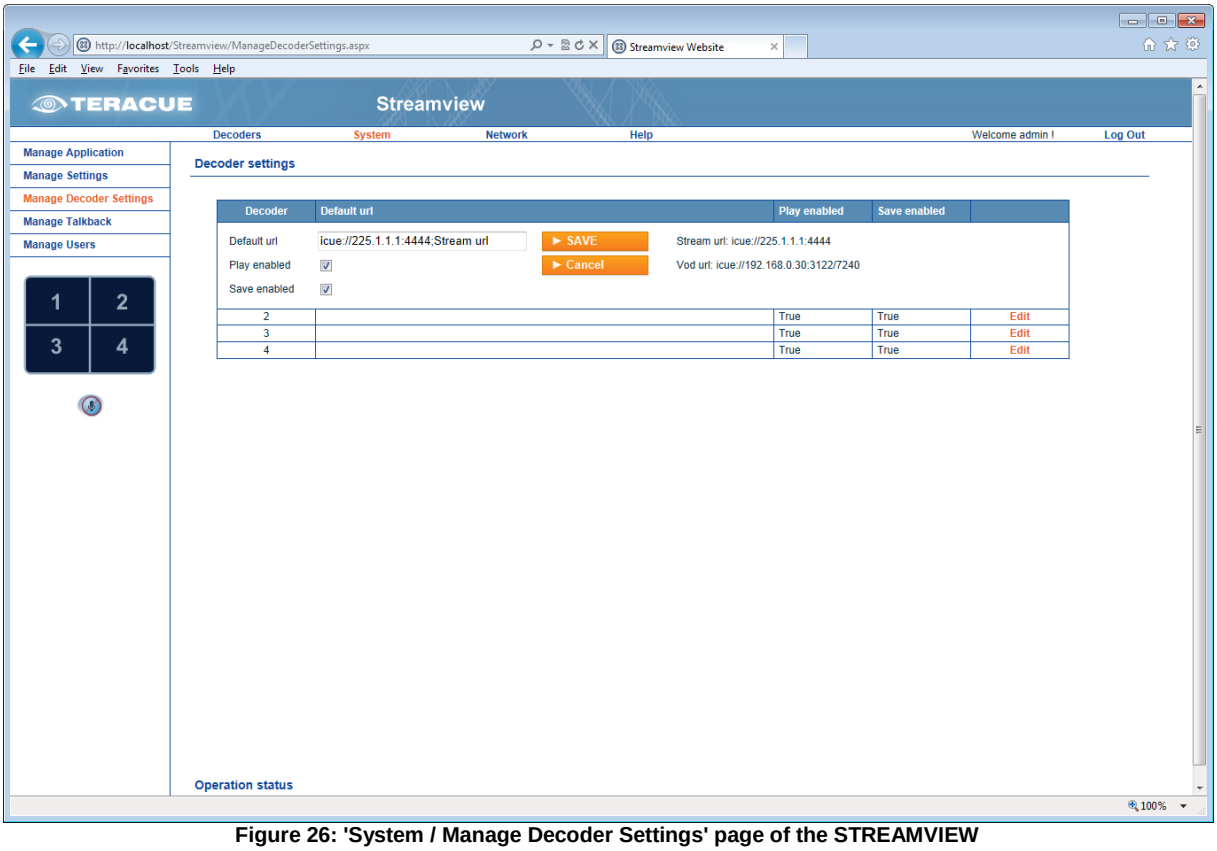

Figure 26: 'System / Manage Decoder Settings' page of the STREAMVIEW

Table 10 and Table 11 describe the ‘System / Manage Decoder Settings’ page of the STREAMVIEW.

Settings:	Description:
Decoder:	Represents the respective decoder index.
Default url:	Represents the URL that will be loaded when the STREAMVIEW is started or re-started.
Play enabled:	If check box is enabled, the decoding process is automatically initiated when the STREAMVIEW is started or re-started.
Save enabled:	If check box is enabled, the STREAMVIEW will automatically save the URL that it received as a parameter of the ‘PLAY’ command.

Table 10: Settings on the 'System / Manage Decoder Settings' webpage of the STREAMVIEW

Operations:	Description:
SAVE:	Saves all changes.
CANCEL:	Cancels the ‘EDIT’ operation and hides the ‘EDIT’ panel.
EDIT:	Initiates an ‘EDIT’ operation.

Table 11: Operations on the 'System / Manage Decoder Settings' page of the STREAMVIEW

4.4.6 Menu: System / Manage Talkback

Figure 27 shows the ‘System / Manage Talkback’ page of the STREAMVIEW.

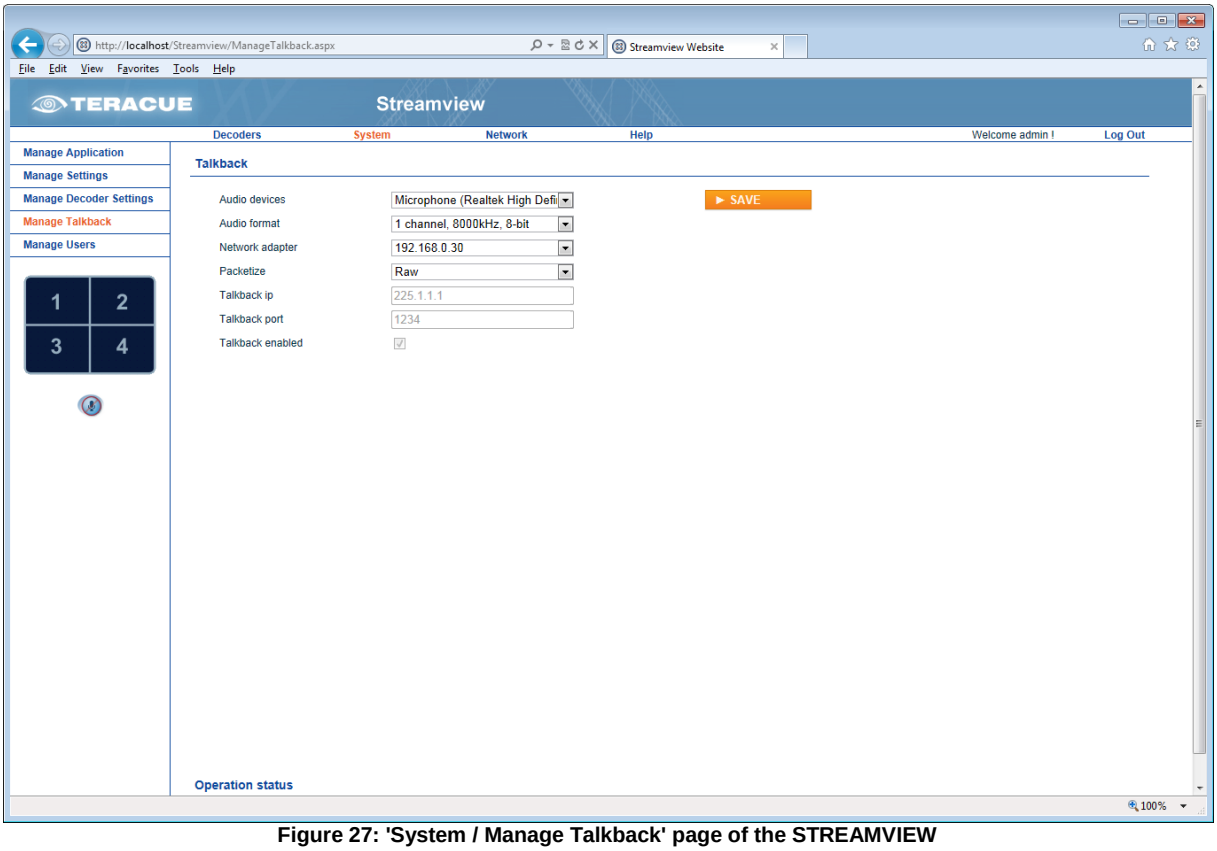

Figure 27: 'System / Manage Talkback' page of the STREAMVIEW

Table 12 and Table 13 describe the ‘System / Manage Talkback’ page of the STREAMVIEW.

Settings:	Description:
Audio device:	Specifies the default audio input.
Audio format:	Specifies the default audio format.
Network adapter:	Specifies the default network adapter used for talkback.
Packetize:	Specifies the packaging format.
Talkback ip	Represents the IP-address on which the talkback stream is sent.
Talkback port	Represents the port number on which the talkback stream is sent.
Talkback enabled	Checked if talkback is enabled, un-checked otherwise.

Table 12: Settings on the 'System / Manage Talkback' webpage of the STREAMVIEW

Operations:	Description:
AUDIO DEVICE SELECTION:	Enables the selection of the default audio input.
AUDIO FORMAT SELECTION:	Enables the selection of the default audio format.
NETWORK ADAPTER SELECTION:	Enables the selection of the default network adapter.
PACKETIZE SELECTION:	Enables the selection of packetization format.
SAVE	Save all the settings.

Table 13: Operations on the 'System / Manage Talkback' webpage of the STREAMVIEW

4.4.7 Menu: System / Manage Users

Figure 28 shows the ‘System / Manage Users’ page of the STREAMVIEW.

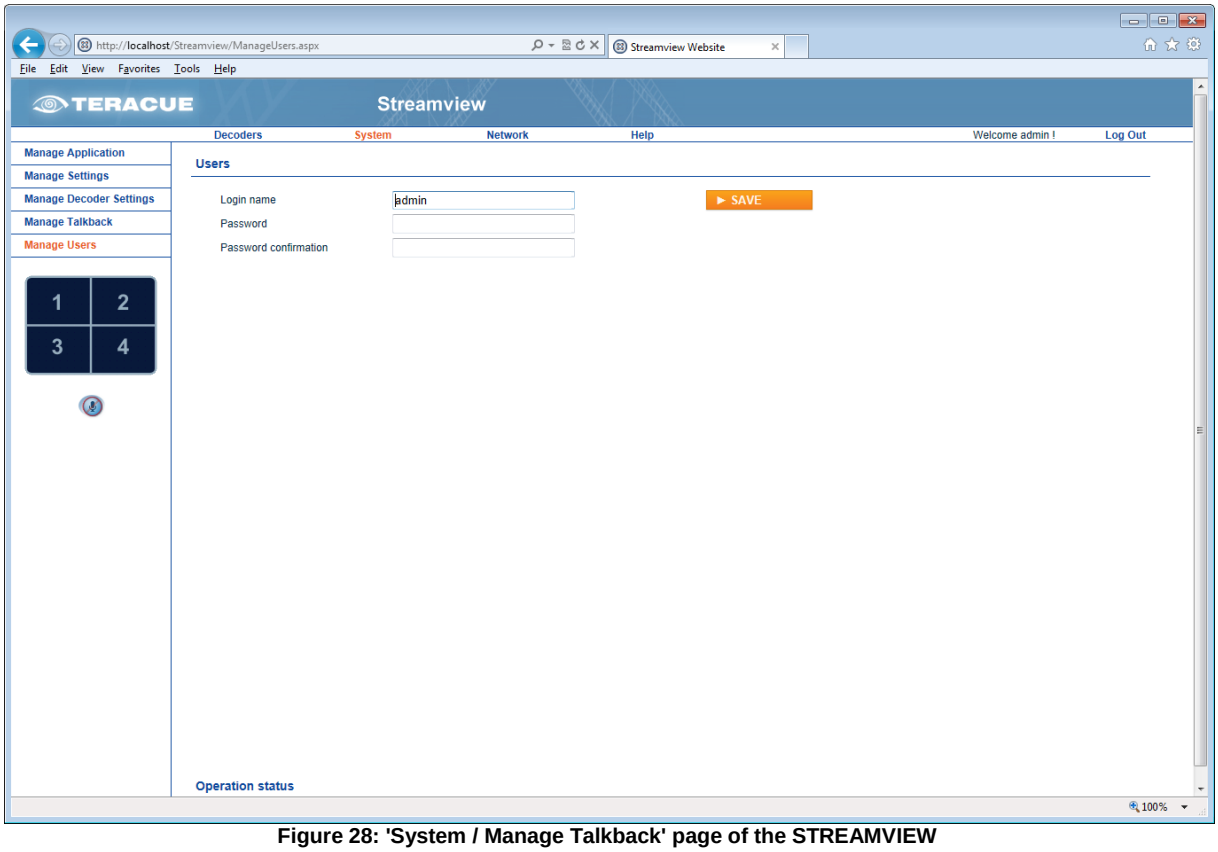

Figure 28: 'System / Manage Talkback' page of the STREAMVIEW

Table 14 and Table 15 describe the ‘System / Manage Users’ page of the STREAMVIEW.

Settings:	Description:
Login name:	Represents the default user name.
Password:	Represents password.
Password confirmation:	Represents password confirmation.

Table 14: Settings on the 'System / Manage Users' webpage of the STREAMVIEW

Operations:	Description:
SAVE	Save all the settings.

Table 15: Operations on the 'System / Manage Users' webpage of the STREAMVIEW

4.4.8 Menu: Network / Manage Network

Figure 29 shows the ‘Network / Manage Network’ page of the STREAMVIEW. Here you are able to set the STREAMVIEW's own IP-address, subnet mask, gateway address and define the STREAMVIEW's host name.

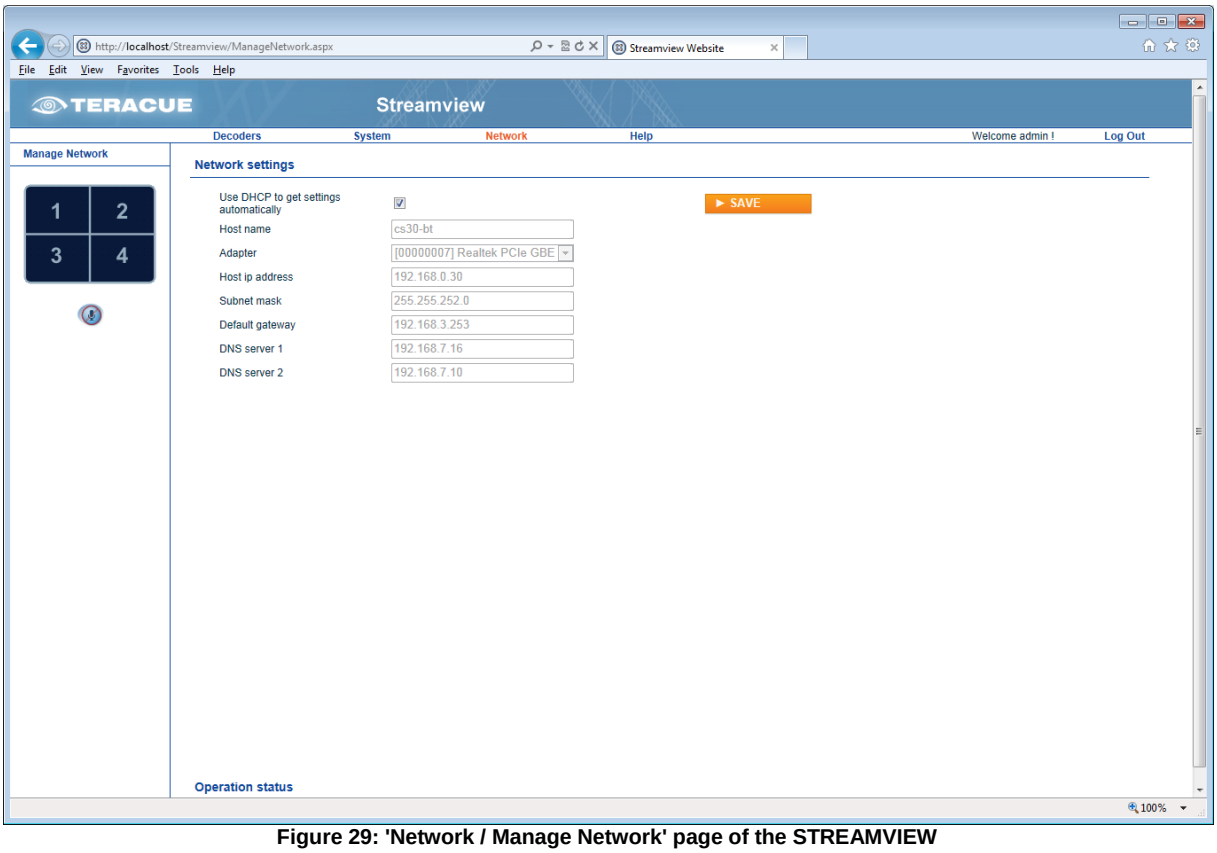

Figure 29: 'Network / Manage Network' page of the STREAMVIEW

Table 16 and Table 17 describe the ‘Network / Manage Network’ page of the STREAMVIEW

Settings:	Description:
Use DHCP	Enables / Disables DHCP. Only use this option if you are familiar with DCHP and your network supports DCHP.
Host Name:	Specifies the hostname of the STREAMVIEW. Please enter your desired hostname of the STREAMVIEW in this field.
Adapter:	Specifies the network card for which the settings below are.
Host ip address:	Specifies the IP-address of the STREAMVIEW.
Subnet mask:	Specifies the subnet mask of the STREAMVIEW.
Default gateway:	Defines IP-address of your gateway. The gateway is usually the address of the network device such as a network router.
DNS server1:	Specifies the IP-address of the primary used DNS-Server.
DNS server2:	Specifies the IP-address of the secondary DNS-Server.

Table 16: Settings on the 'Network / Manage Network' webpage of the STREAMVIEW

Operations:	Description:
SAVE	Save all the settings.

Table 17: Operations on the 'Network / Manage Network' webpage of the STREAMVIEW

.!. When you want to change the network settings of your STREAMVIEW, you must stop at first the STREAMVIEW process.

4.5 Help

Clicking on the ‘HELP’ button will open the Teracue website where you can get to the ‘Support’ link.

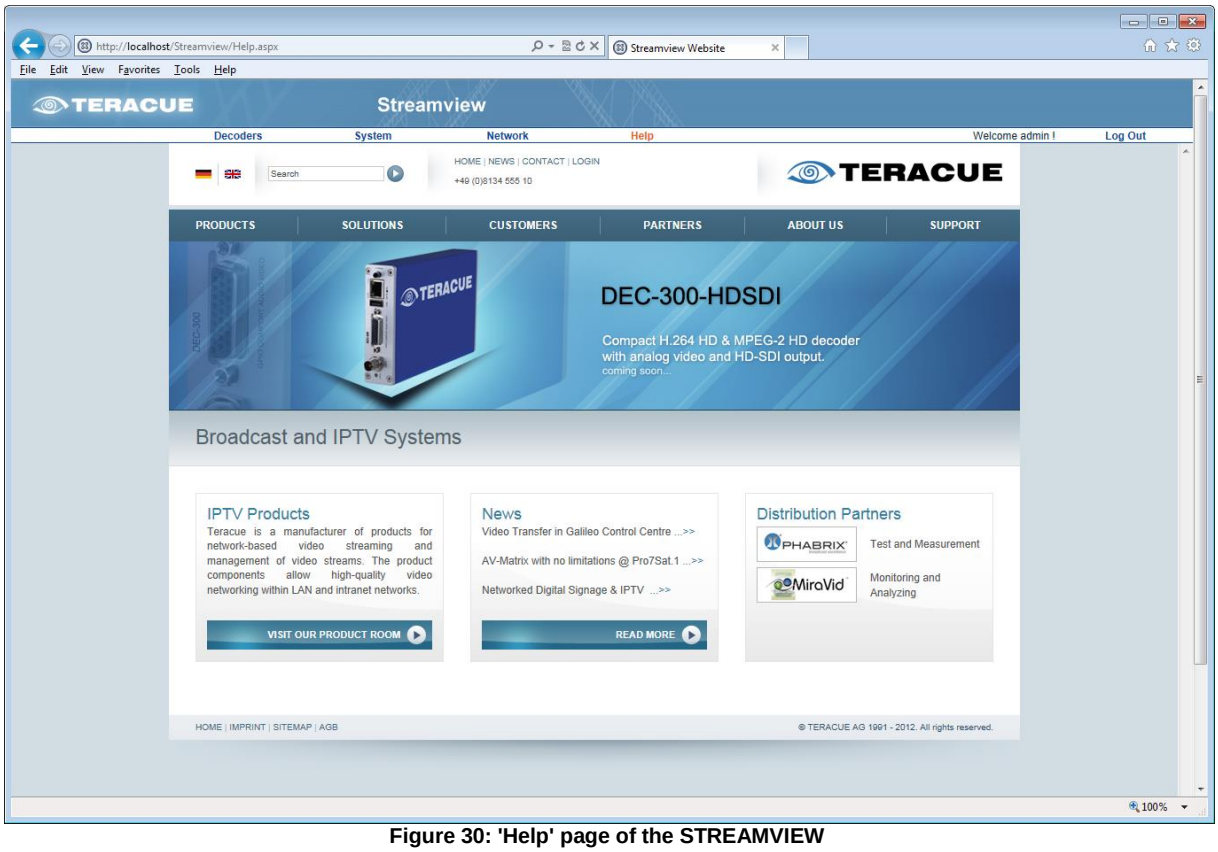
http://localhost/Streamview/Help.aspx
Streamview Website
File Edit View Favorites Tools Help
TERACUE
Streamview
Decoders System Network Help Welcome admin ! Log Out
Search
HOME | NEWS | CONTACT | LOGIN
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Figure 30: 'Help' page of the STREAMVIEW

.!. This will only work if the STREAMVIEW is situated in a network in which internet access is provided. Otherwise ‘page not found’ may be displayed.

4.6 Logout

After having made adjustments to the STREAMVIEW, please be sure to logout, see Figure 31.

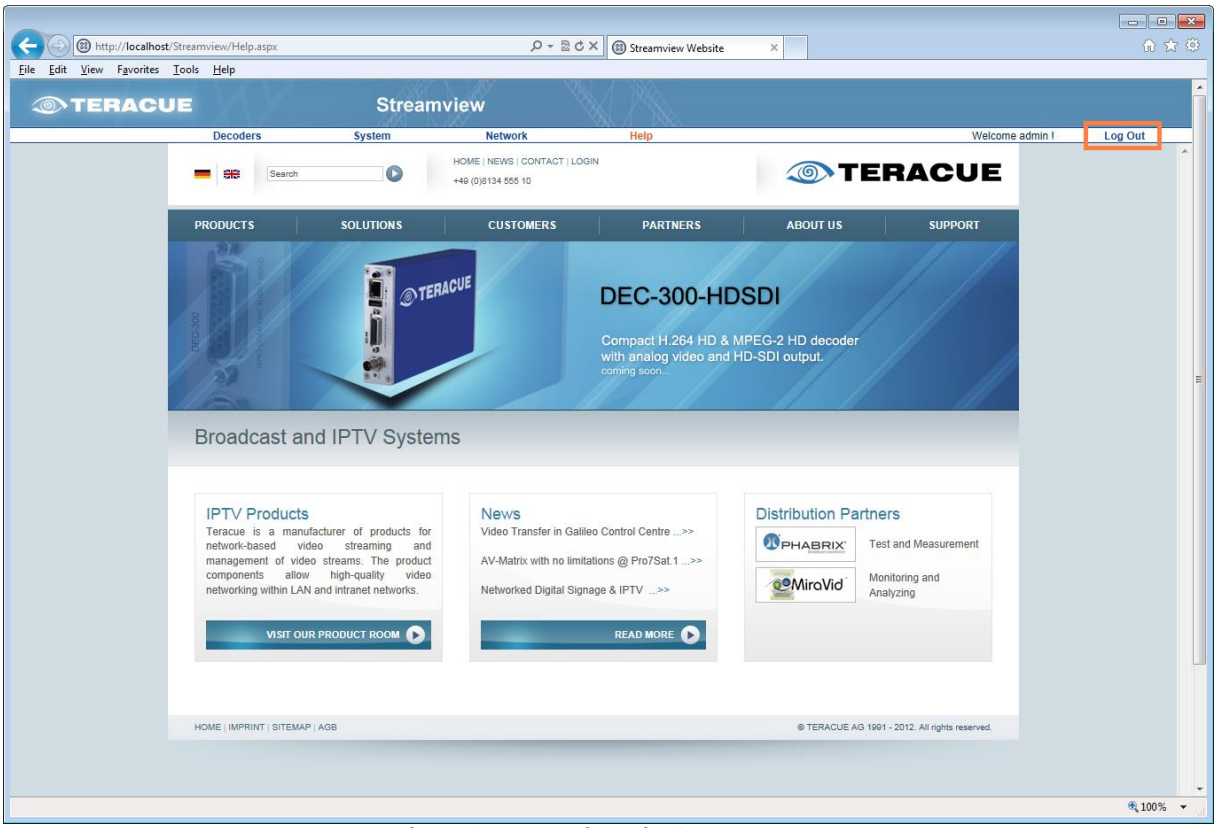
http://localhost/Streamview/Help.aspx
Streamview Website
File Edit View Favorites Tools Help
TERACUE
Streamview
Decoders System Network Help
Welcome admin !
Log Out
HOME | NEWS | CONTACT | LOGIN
+49 (0)6134 555 10
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Figure 31: Logout form the STREAMVIEW

.!. Logging out prevents misuse and unauthorized access to the STREAMVIEW.

5. STREAMVIEW Remote Control

5.1 General Information

Teracue Framework Protocol is designed to receive and send commands via Ethernet to and from media control devices like AMX or Crestron. The Framework protocol supports UDP, TCP and Multicast UDP data packets. The protocol is text based encoded in UTF8. The default settings for the socket communication are stored in the profile of the Teracue instance. Open the default profile in the path:
C:\Program Files\Teracue\Streamview\Profiles\Default.xml:

```
<Plugin Assembly="Framework.Controller.dll" Name="StreamviewController">
  <Settings>
    <FeedbackPort>7771</FeedbackPort>
    <IpAddress>127.0.0.1</IpAddress>
    <Port>7777</Port>
    <ProtocolType>Tcp</ProtocolType>
  </Settings>
</Plugin>
```

To test the communication we implemented a test tool, “Send Text Application”. This tool simulates the Media control device. Each command is terminated by carriage return; each response will send a Line feed. You can check the command separation as default termination. The protocol supports return value to enhance extensibility

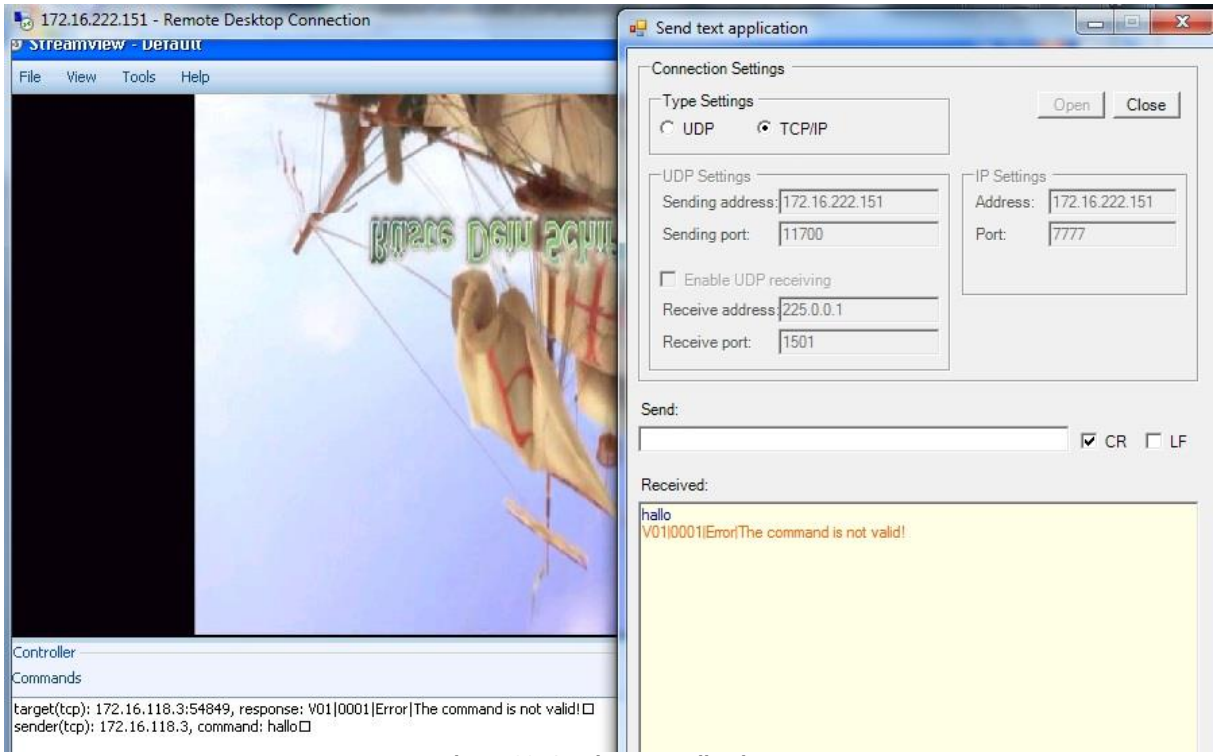

Figure 32: Send Text Application

5.1.1 General Syntax

Version|Id|To|TargetType|[Args]|CommandType|[Args]|CR

- The **Version** indicates the version number of the protocol.
- The **Id** indicates the identifier of the command. Each command must have a unique identifier.
- The receiver will include this Id in the response message.
- The **To** field designates the destination of the message; this can be either an ip address or a '*', which means that all listeners should respond to the command?
- The **TargetType** can be any of the following: Plugin, PluginGroup, and Framework. The TargetType is always located at the forth position within the text command.
- The **Framework** keyword has no arguments.
- Each **TargetType** can have a subset of CommandTypes.
- The **CommandType** keyword's position within the text is determined by the Target's arguments count. The Command keyword has at least one argument, the name of the command, and can have an arbitrary number of parameters; Preset keyword has 1 argument, which is the name of the preset.

5.2 TargetType Framework command set

The Framework is associated with the following CommandTypes: Ping, CommandList, PluginList, PresetList and PresetGroupList.
The Framework Controller itself has no command subset:
V07|001|172.16.222.151|Framework|CommandList|Assembly=Framework.Controller.dll
V07|001|Error|EmptyList

The Framework.Controller.dll's role is to parse text based commands and to route the command to the given plug-in, like Streamview or other device and FRAMEWORK itself. Element Manager will load the Framework Controller. The Framework Controller is the interface between Media Control device and the devices which should be remotely controlled, like amino boxes or several Streamview instances.
These are the commands, the Framework itself has implemented:

5.2.1.1 Command ping

Description
Pings the device

Parameters
None

Example
V07|001|172.16.222.151|Framework|Ping

Returns
V07|001|Ok

5.2.1.2 Command Restart

Description
Restart the application. Corse the Application will be restarted the TCP Connection get lost to the Media Control device, so the connection needs to get closed and open up in a new session.

Parameters
None

Example
V07|001|172.16.222.151|Framework|Restart

Returns
V07|001|Ok

5.2.1.3 Command Reboot

Description
Reboot the application

Parameters
None

Example
V07|001|172.16.222.151|Framework|Reboot

Returns
V07|001|Ok

5.2.2 Command ApplicationWindowState

Description
Get the ApplicationWindowState

Parameters
None

Example
V07|0025|172.16.222.151|Framework|ApplicationWindowState

Returns
V07|0025|Ok|Minimized

5.2.2.1 Command ApplicationWindowState Fullscreen

Description
Setting the ApplicationWindowState to Fullscreen

Parameters
Fullscreen

Example
V07|0025|172.16.222.151|Framework|ApplicationWindowState|Fullscreen

Returns
V07|0025|Ok|Fullscreen

5.2.2.2 Command ApplicationWindowState Minimized

Description
Setting the ApplicationWindowState to Minimized

Parameters
Minimized

Example
V07|0025|172.16.222.151|Framework|ApplicationWindowState|Minimized

Returns
V07|0025|Ok|Minimized

5.2.2.3 Command ApplicationWindowState Maximized

Description
Setting the ApplicationWindowState to Maximized

Parameters
Maximized

Example
V07|0025|172.16.222.151|Framework|ApplicationWindowState|Maximized

Returns
V07|0025|Ok|Maximized

5.2.2.4 Command ApplicationWindowState Normal

Description
- Setting the ApplicationWindowState to Normal

Parameters
Normal

Example
V07|0025|172.16.222.151|Framework|ApplicationWindowState|Normal

Returns
V07|0025|Ok|Normal

5.2.3 Command ApplicationWindowLocation

Description
Getting the ApplicationWindowLocation

Example
V07|0023|192.168.0.30|Framework|ApplicationWindowLocation

Returns
V07|0023|Ok|111|222

5.2.3.1 Command ApplicationWindowLocation

Description
Setting the ApplicationWindowLocation

Parameters
Pixel size for vertical and horizontal size: 111|222

Example
V07|0023|192.168.0.30|Framework|ApplicationWindowLocation|111|222

Returns
V07|0023|Ok|111|222

5.2.4 Command ApplicationWindowSize

Description
Get the ApplicationWindowSize

Parameters
None

Example
V07|0024|172.16.222.151|Framework|ApplicationWindowSize

Returns
V07|0024|Ok|640|480

5.2.4.1 Command ApplicationWindowSize

Description
Setting the ApplicationWindowSize

Parameters
Pixel size for vertical and horizontal size: 111|222

Example
V07|0024|172.16.222.151|Framework|ApplicationWindowSize|640|480

Returns
V07|0024|Ok|640|480

Now led us see which command subset for instance a StreamView Decoder has implemented.

5.2.5 Command CommandList

Description
Each device could be asked which commands it will support.

Parameters
None

Example
V07|001|172.16.222.151|Framework|CommandList|Assembly=Streamview.Decoder.dll

Returns
V07|001|Ok|Close()
V07|001|Ok|Pause()
V07|001|Ok|Play(System.String url)
V07|001|Ok|SetFullscreen(System.String enabled)
V07|001|Ok|SetTalkback(System.String enabled)
V07|001|Ok|SetVolume(System.String volume)

5.2.6 Command PluginLocation

Description
Each device could be asked which commands it will support.

Parameters
Pixel size for horizontal and vertical

Example
V07|0006|172.16.100.110|Framework|PluginLocation|Decoder01|10|40

Returns

5.2.7 Command PluginSize

Description
Informs about the plugin size

Parameters
Pixel size for horizontal and vertical

Example
V07|0006|172.16.100.101|Framework|PluginSize|Decoder01

Returns
V07|0006|172.16.100.101|Framework|PluginSize|Decoder01
V07|0006|Ok|1265|922

5.3 TargetType Plugin command set

We receive from a Streamview Instance:
V07|001|172.16.222.151|Framework|CommandList|Assembly=Streamview.Decoder.dll
The commands of the plug in Streamview.Decoder.dll which is named Decoder0Y to Decoder 0Z are:

V07|001|Ok|Close()
V07|001|Ok|Pause()
V07|001|Ok|Play(System.String url)
V07|001|Ok|SetFullscreen(System.String enabled)
V07|001|Ok|SetTalkback(System.String enabled)
V07|001|Ok|SetVolume(System.String volume)

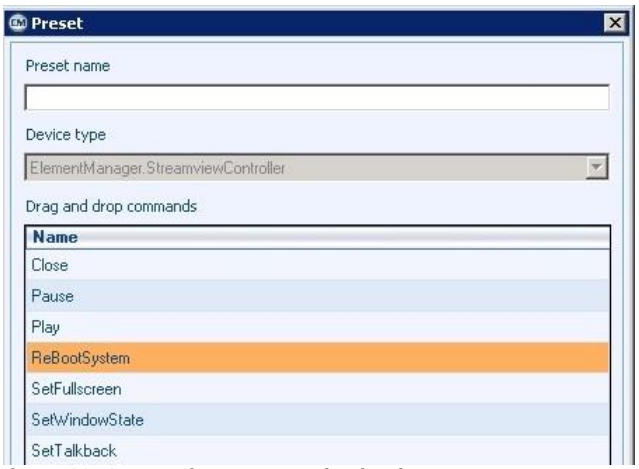

Figure 33: Streamview commands via Element Manager

The Plugin keyword has 1 argument, which is the name of the plugin.

The Plugin is associated with the following CommandTypes: Command, Preset, PresetGroup, and Status.

Version|Id|To|TargetType|[Args]|CommandType|[Args]|CR
V07|001|172.16.222.151|Plugin|Decoder01|Command|Play|icue://239.252.20.24:4444

If there are more than one Streamview in the environment, you can control all Streamview with one Framework Controller within our product Element Manager. After configure the Streamview Device in EM you are able to create presets of the commands, and control the Streamview Device with the presets from Element Manager. This workflow works with other devices which could be configured in Element Manager as well. For instance if you want to control devices like Amino STB box configure the devices and create to each command a preset:

5.3.1 STREAMVIEW Plugin command Play

Description
Send a play command to the Decoder instance.

Parameters
icue://239.252.20.24:4444
The parameter consists of the Stream protocol type.
Streamview supports icue, udpvlc, httpvlc, rtsp, rtp
Each protocol contains an IP Address and a port.

Example
V07|001|172.16.222.151|Plugin|Decoder01|Command|Play|icue://239.252.20.24:4444

Returns
V07|0025|Ok|<CommandResult><Code>Suceeded</Code><Name>Play(icue://239.252.20.24:4444)</Name><Result>Play invoked. url: icue://239.252.20.24:4444</Result></CommandResult>

5.3.2 STREAMVIEW Plugin command close

Description
Close stream or VOD playback of the Player instance

Parameters
None

Example
V07|0025|172.16.100.45|Plugin|Decoder01|Command|Close

Returns
V07|0025|172.16.100.45|Plugin|Decoder01|Command|Close
V07|0025|Ok|<CommandResult><Code>Suceeded</Code><Name>Close()</Name><Result>Close invoked.</Result></CommandResult>

5.3.3 STREAMVIEW Plugin command Pause

Description
Pauses stream or VOD playback of the Player instance. A stream which already paused does not invoke an error if the command is send twice.

Parameters
None

Example
V07|0025|172.16.100.45|Plugin|Decoder01|Command|Pause

Returns
V07|0025|Ok|<CommandResult><Code>Suceeded</Code><Name>Pause()</Name><Result>Pause invoked.</Result></CommandResult>

5.3.4 STREAMVIEW Plugin command SetFullscreen

Description
Set the Decoder instance into Full screen state or off

Parameters
True, false not case sensitive

Example
V07|0025|172.16.100.45|Plugin|Decoder01|Command|SetFullscreen|true
V07|0025|172.16.100.45|Plugin|Decoder01|Command|SetFullscreen|False

Returns
V07|0025|Ok|<CommandResult><Code>Suceeded</Code><Name>SetFullscreen(true)</Name><Result>SetFullscreen invoked. on: true</Result></CommandResult>

V07|0025|Ok|<CommandResult><Code>Suceeded</Code><Name>SetFullscreen(false)</Name><Result>SetFullscreen invoked. on: False</Result></CommandResult>

5.3.5 STREAMVIEW Plugin command SetTalkback

Description
Set Talkback feature activated for the given Decoder. Talkback feature could be used from within ENC Encoders. The Talkback Configuration needs to be set first in the Registry of the Streamview instance

Parameters
True, false not case sensitive

Example
V07|0025|172.16.100.45|Plugin|Decoder01|Command|SetTalkback|true

Returns
V07|0025|172.16.100.45|Plugin|Decoder01|Command|SetTalkback|true
V07|0025|Ok|<CommandResult><Code>Suceeded</Code><Name>SetTalkback(true)</Name><Result>SetTalkback invoked. on: true</Result></CommandResult>

5.3.6 STREAMVIEW Plugin command SetVolume

Description
Set the Decoder instance into Full screen state or off

Parameters
Percent value to set the volume from 0-100

Example
V07|0025|172.16.100.45|Plugin|Decoder01|Command|SetVolume|50

Returns
V07|0025|Ok|<CommandResult><Code>Suceeded</Code><Name>SetVolume(50)</Name><Result>SetVolume invoked. volume: 50</Result></CommandResult>

5.3.7 STREAMVIEW Plugin Command Status

Description
Informs about the actual Decoder state

Parameters
None

Example
V07|10004|172.16.222.151|Plugin|Decoder01|Status|

Returns
V07|10004|172.16.222.151|Plugin|Decoder01|Status|
V07|10004|Ok|
<DecoderStatus>
<GeneralState>Running</GeneralState>
<DecoderName>Decoder01</DecoderName>
<DecoderState>Playing</DecoderState>
<DecoderType>Xpc</DecoderType>
<FullscreenEnabled>false</FullscreenEnabled>
<MediaType>Unknown</MediaType>
<TalkbackEnabled>false</TalkbackEnabled>
<Url>icue://172.16.30.120/73</Url>
<Volume>0</Volume>
</DecoderStatus>

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